

## compound selection rules

- 1. Include at least one molecule for each kinase inhibitor ring fragment
- 2. Limit the number of frequently appearing rings to at most one
- 3. Target broad and uniform sampling of log P dynamic range
- 4. Prioritize cheaper molecules





## В Heterocycles found frequently in FDA approved kinase inhibitors





pyridine

quinazoline



pyrimidine

quinoline





pyrazole

imidazole





piperazine indazole

## C

Heterocycles overrepresented in fragment libraries





aminothiazole

thiophene



1,3,4-thiadiazole



5-methylenethiazolidine-2,4-dione